

Dr. Duke's Phytochemical and Ethnobotanical Database

Chemicals Found in *Mahonia aquifolium*

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
4	(+)-SYRINGARESINOL	Bark	--	28		Wirth, C., Wagner, H. 1997. Pharmacologically Active Phenolic Compounds from the Bark of <i>Mahonia aquifolium</i> . <i>Phytomedicine</i> , 4(4): 357-358.
0	3-HYDROXY-4-METHOXYPHENYLETHYL-ALCOHOL	Bark	--	116		Wirth, C., Wagner, H. 1997. Pharmacologically Active Phenolic Compounds from the Bark of <i>Mahonia aquifolium</i> . <i>Phytomedicine</i> , 4(4): 357-358.
0	AQUIFOLINE	Root	--	365		Kostalova, D., Uhrin, D., Hrochova, V., Tomko, J. 1987. A new bisbenzylisoquinoline alkaloid from <i>Mahonia aquifolium</i> (Pursh) Nutt. <i>Collect Czech Chem Commun</i> , 52(1): 242-246.
2	AROMOLINE	Root	--	--		Kostalova, D., Hrochova, V., Tomko, J. 1986. Tertiary Alkaloids of <i>Mahonia aquifolium</i> (Pursh) Nutt. III. <i>Chem Pap</i> , 40(3): 389-394.
2	AROMOLINE	Seed	--	--		Kostalova, D., Hrochova, V., Tomko, J. 1986. Tertiary Alkaloids of <i>Mahonia aquifolium</i> (Pursh) Nutt. III. <i>Chem Pap</i> , 40(3): 389-394.
0	BALUCHISTINE	Root	--	40		Kostalova, D., Uhrin, D., Hrochova, V., Tomko, J. 1987. A new bisbenzylisoquinoline alkaloid from <i>Mahonia aquifolium</i> (Pursh) Nutt. <i>Collect Czech Chem Commun</i> , 52(1): 242-246.
38	BERBAMINE	Shoot	--	--		Khusainova, K. S. and Sadykov, Y. D. 1986. Alkaloids from Aerial Parts of <i>Mahonia aquifolium</i> . <i>Izv Akad Nauk Tadzh Ssr Otd Fiz Mat Khim Geol Nauk</i> , 1: 41-46.
38	BERBAMINE	Bark	--	--		
38	BERBAMINE	Leaf	--	31		Slavik, J., Bochorakova, J., Kostalova, D., Hrochova, V. 1985. Alkaloids of <i>Mahonia aquifolium</i> (Pursh) Nutt. II. <i>Chem Pap</i> , 39(4): 537-542.
38	BERBAMINE	Seed	--	--		Kostalova, D., Hrochova, V., Tomko, J. 1986. Tertiary Alkaloids of <i>Mahonia aquifolium</i> (Pursh) Nutt. III. <i>Chem Pap</i> , 40(3): 389-394.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
38	BERBAMINE	Root	--	--		
38	BERBAMINE	Wood	--	--		Slavik, J., Bochorakova, J., Kostalova, D., Hrochova, V. 1985. Alkaloids of <i>Mahonia aquifolium</i> (Pursh) Nutt. II. Chem Pap, 39(4): 537-542.
130	BERBERINE	Root Bark	--	--		Kukic, P., Nikolic, R., Gorunovic, M. 1972. Comparative Pharmacognostic Study of Berberis (Barberry) vulgaris and Berberis aquifolium. Acta Pharm Jugosl, 22: 19-24.
130	BERBERINE	Plant	--	--		
130	BERBERINE	Bark	--	--		
130	BERBERINE	Leaf	--	13	-1	Slavik, J., Bochorakova, J., Kostalova, D., Hrochova, V. 1985. Alkaloids of <i>Mahonia aquifolium</i> (Pursh) Nutt. II. Chem Pap, 39(4): 537-542.
130	BERBERINE	Shoot	--	--		
130	BERBERINE	Wood	--	--		Slavik, J., Bochorakova, J., Kostalova, D., Hrochova, V. 1985. Alkaloids of <i>Mahonia aquifolium</i> (Pursh) Nutt. II. Chem Pap, 39(4): 537-542.
130	BERBERINE	Root	--	--		
1	CANADINE	Plant	--	--		CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
7	COLUMBAMINE	Plant	--	--		
7	COLUMBAMINE	Root	--	--		Kostavolva, D., Brazdovicova, B., Tomko, J. 1981. Isolation of Quaternary Alkaloids from <i>Mahonia aquifolium</i> (Pursh) Nutt. I. Chem Zvesti, 35: 279-283.
7	COLUMBAMINE	Bark	--	--		Slavik, J., Bochorakova, J., Kostalova, D., Hrochova, V. 1985. Alkaloids of <i>Mahonia aquifolium</i> (Pursh) Nutt. II. Chem Pap, 39(4): 537-542.
6	CORYDINE	Plant	--	--		J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
6	CORYDINE	Leaf	--	29		Slavik, J., Bochorakova, J., Kostalova, D., Hrochova, V. 1985. Alkaloids of <i>Mahonia aquifolium</i> (Pursh) Nutt. II. Chem Pap, 39(4): 537-542.
2	CORYPALMINE	Plant	--	--		CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
3	CORYTUBERINE	Leaf	--	4300		Slavik, J., Bochorakova, J., Kostalova, D., Hrochova, V. 1985. Alkaloids of <i>Mahonia aquifolium</i> (Pursh) Nutt. II. Chem Pap, 39(4): 537-542.
3	CORYTUBERINE	Bark	--	--		Slavik, J., Bochorakova, J., Kostalova, D., Hrochova, V. 1985. Alkaloids of <i>Mahonia aquifolium</i> (Pursh) Nutt. II. Chem Pap, 39(4): 537-542.
3	CORYTUBERINE	Wood	--	--		Slavik, J., Bochorakova, J., Kostalova, D., Hrochova, V. 1985. Alkaloids of <i>Mahonia aquifolium</i> (Pursh) Nutt. II. Chem Pap, 39(4): 537-542.
3	CORYTUBERINE	Plant	--	--		
16	HYDRASTINE	Root	--	--		
5	ISOBOULDINE	Plant	--	--		J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
5	ISOBOULDINE	Leaf	--	23		Slavik, J., Bochorakova, J., Kostalova, D., Hrochova, V. 1985. Alkaloids of <i>Mahonia aquifolium</i> (Pursh) Nutt. II. Chem Pap, 39(4): 537-542.
5	ISOCORYDINE	Plant	--	--		CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
5	ISOCORYDINE	Wood	--	--		Slavik, J., Bochorakova, J., Kostalova, D., Hrochova, V. 1985. Alkaloids of <i>Mahonia aquifolium</i> (Pursh) Nutt. II. Chem Pap, 39(4): 537-542.
5	ISOCORYDINE	Leaf	--	26		Slavik, J., Bochorakova, J., Kostalova, D., Hrochova, V. 1985. Alkaloids of <i>Mahonia aquifolium</i> (Pursh) Nutt. II. Chem Pap, 39(4): 537-542.
5	ISOCORYDINE	Flower	--	--		Slavik, J., Bochorakova, J., Kostalova, D., Hrochova, V. 1985. Alkaloids of <i>Mahonia aquifolium</i> (Pursh) Nutt. II. Chem Pap, 39(4): 537-542.

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5	ISOCORYDINE	Bark	--	--		Slavik, J., Bochorakova, J., Kostalova, D., Hrochova, V. 1985. Alkaloids of <i>Mahonia aquifolium</i> (Pursh) Nutt. II. Chem Pap, 39(4): 537-542.
11	ISOTETRANDRINE	Shoot	--	--		Khusainova, K. S. and Sadykov, Y. D. 1986. Alkaloids from Aerial Parts of <i>Mahonia aquifolium</i> . Izv Akad Nauk Tadzh Ssr Otd Fiz Mat Khim Geol Nauk, 1: 41-46.
11	ISOTETRANDRINE	Seed	--	--		Kostalova, D., Hrochova, V., Tomko, J. 1986. Tertiary Alkaloids of <i>Mahonia aquifolium</i> (Pursh) Nutt. III. Chem Pap, 40(3): 389-394.
13	JATRORRHIZINE	Bark	--	--		Slavik, J., Bochorakova, J., Kostalova, D., Hrochova, V. 1985. Alkaloids of <i>Mahonia aquifolium</i> (Pursh) Nutt. II. Chem Pap, 39(4): 537-542.
13	JATRORRHIZINE	Plant	--	--		
13	JATRORRHIZINE	Shoot	--	--		
13	JATRORRHIZINE	Root	--	--		Kostavolva, D., Brazdovicova, B., Tomko, J. 1981. Isolation of Quaternary Alkaloids from <i>Mahonia aquifolium</i> (Pursh) Nutt. I. Chem Zvesti, 35: 279-283.
11	MAGNOFLORINE	Root	--	--		Kostavolva, D., Brazdovicova, B., Tomko, J. 1981. Isolation of Quaternary Alkaloids from <i>Mahonia aquifolium</i> (Pursh) Nutt. I. Chem Zvesti, 35: 279-283.
11	MAGNOFLORINE	Leaf	--	1600		Slavik, J., Bochorakova, J., Kostalova, D., Hrochova, V. 1985. Alkaloids of <i>Mahonia aquifolium</i> (Pursh) Nutt. II. Chem Pap, 39(4): 537-542.
11	MAGNOFLORINE	Bark	--	--		Slavik, J., Bochorakova, J., Kostalova, D., Hrochova, V. 1985. Alkaloids of <i>Mahonia aquifolium</i> (Pursh) Nutt. II. Chem Pap, 39(4): 537-542.
11	MAGNOFLORINE	Wood	--	--		Slavik, J., Bochorakova, J., Kostalova, D., Hrochova, V. 1985. Alkaloids of <i>Mahonia aquifolium</i> (Pursh) Nutt. II. Chem Pap, 39(4): 537-542.
11	MAGNOFLORINE	Plant	--	--		

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0	MAHONINE	Plant	--	--		CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	N-HEPTACOSAN-1-OL	Leaf Wax	--	--		Berg, V. S. 1985. Physical, Chemical and Spectral Properties of Leaf Surfaces of <i>Berberis aquifolium</i> (Pursh.). <i>Plant Cell Environ</i> , 8(9): 631-638.
0	NONACOSAN-19-OL	Leaf Wax	--	--		Berg, V. S. 1985. Physical, Chemical and Spectral Properties of Leaf Surfaces of <i>Berberis aquifolium</i> (Pursh.). <i>Plant Cell Environ</i> , 8(9): 631-638.
4	OBAMEGINE	Root	--	--		Kostalova, D., Hrochova, V., Tomko, J. 1986. Tertiary Alkaloids of <i>Mahonia aquifolium</i> (Pursh) Nutt. <i>III. Chem Pap</i> , 40(3): 389-394.
4	OBAMEGINE	Seed	--	--		Kostalova, D., Hrochova, V., Tomko, J. 1986. Tertiary Alkaloids of <i>Mahonia aquifolium</i> (Pursh) Nutt. <i>III. Chem Pap</i> , 40(3): 389-394.
10	OXYACANTHINE	Seed	--	--		Kostalova, D., Hrochova, V., Tomko, J. 1986. Tertiary Alkaloids of <i>Mahonia aquifolium</i> (Pursh) Nutt. <i>III. Chem Pap</i> , 40(3): 389-394.
10	OXYACANTHINE	Root	--	--		
10	OXYACANTHINE	Bark	--	--		Mulelr, K., Ziereis, K., Gawlik, I. 1995. The Antipsoriatic <i>Mahonia aquifolium</i> and its Active Constituents, II. Antiproliferative Activity Against Cell Growth of Human Keratinocytes. <i>Planta Medica</i> , 61(1): 74-75.
10	OXYACANTHINE	Plant	--	--		Galle, K., Muller-Jakic, B., Proebstle, A., Jurcic, K., Bladt, S., Wagner, H. 1994. Analytical and Pharmacological Studies on <i>Mahonia aquifolium</i> . <i>Phytomedicine</i> , 1(1): 59-62.
10	OXYACANTHINE	Shoot	--	--		Khusainova, K. S. and Sadykov, Y. D. 1986. Alkaloids from Aerial Parts of <i>Mahonia aquifolium</i> . <i>Izv Akad Nauk Tadzh Ssr Otd Fiz Mat Khim Geol Nauk</i> , 1: 41-46.
0	OXYBERBERINE	Root	--	--		Kostalova, D., Hrochova, V., Tomko, J. 1986. Tertiary Alkaloids of <i>Mahonia aquifolium</i> (Pursh) Nutt. <i>III. Chem Pap</i> , 40(3): 389-394.

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0	OXYBERBERINE	Seed	--	--		Kostalova, D., Hrochova, V., Tomko, J. 1986. Tertiary Alkaloids of <i>Mahonia aquifolium</i> (Pursh) Nutt. III. Chem Pap, 40(3): 389-394.
0	OXYBERBERINE	Plant	--	--		Misik, V., Bezakova, L., Malekova, L., Kostalova, D. 1995. Lipoxygenase Inhibition and Antioxidant Properties of Protoberberine and Aporphine Alkaloids Isolated from <i>Mahonia aquifolium</i> . <i>Planta Medica</i> , 61(4): 372-373.
17	PALMATINE	Root	--	--		Kostavolva, D., Brazdovicova, B., Tomko, J. 1981. Isolation of Quaternary Alkaloids from <i>Mahonia aquifolium</i> (Pursh) Nutt. I. Chem Zvesti, 35: 279-283.
17	PALMATINE	Shoot	--	--		
17	PALMATINE	Plant	--	--		
17	PALMATINE	Leaf	--	13		Slavik, J., Bochorakova, J., Kostalova, D., Hrochova, V. 1985. Alkaloids of <i>Mahonia aquifolium</i> (Pursh) Nutt. II. Chem Pap, 39(4): 537-542.
17	PALMATINE	Bark	--	--		Slavik, J., Bochorakova, J., Kostalova, D., Hrochova, V. 1985. Alkaloids of <i>Mahonia aquifolium</i> (Pursh) Nutt. II. Chem Pap, 39(4): 537-542.
17	PALMATINE	Wood	--	--		Slavik, J., Bochorakova, J., Kostalova, D., Hrochova, V. 1985. Alkaloids of <i>Mahonia aquifolium</i> (Pursh) Nutt. II. Chem Pap, 39(4): 537-542.
0	RESIN	Plant	--	--		CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	SCOULERINE	Bark	--	--		Slavik, J., Bochorakova, J., Kostalova, D., Hrochova, V. 1985. Alkaloids of <i>Mahonia aquifolium</i> (Pursh) Nutt. II. Chem Pap, 39(4): 537-542.
35	TANNIN	Plant	--	--		CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
2	TETRAHYDROBERBERINE	Plant	--	--		J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
0	TETRAHYDROJATRORRHIZINE	Plant	--	--		J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.